

OH. 47

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3869 OH. 47-1

MEMORANDUM

TO: FILE

DATE 12/8/87

FROM: C. Young

SUBJECT:

SITE NAME: Brush Benzilium Company ALTERNATE NAME: _____
1st Street & Hamilton Avenue

CITY: Lorain STATE: OH

OWNER(S)
Past: Brush Benzilium Company Current: Unknown
Owner contacted yes no; if yes, date contacted _____

TYPE OF OPERATION

- Research & Development
- Facility Type
- Production scale testing
- Manufacturing
- Pilot Scale
- University
- Bench Scale Process
- Research Organization
- Theoretical Studies
- Government Sponsored Facility
- Sample & Analysis
- Other _____
- Production
- Disposal/Storage

TYPE OF CONTRACT

- Prime *See Brush Benzilium Cleveland OH*
 - Subcontractor
 - Purchase Order
- Other information (i.e., cost + fixed fee, unit price, time & material, etc) _____

Contract/Purchase Order # _____

CONTRACTING PERIOD: _____

OWNERSHIP:

	AEC/MED OWNED	AEC/MED LEASED	GOVT OWNED	GOVT LEASED	CONTRACTOR OWNED	CONTRACTOR LEASED
LANDS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BUILDINGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EQUIPMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ORE OR RAW MATL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FINAL PRODUCT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WASTE & RESIDUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

AEC/MED INVOLVEMENT AT SITE

Control

- AEC/MED managed operations
- AEC/MED responsible for accountability
- AEC/MED overviewed operations
- Contractor had total control
- unknown

- Health Physics Protection
 - Little or None
 - AEC/MED responsibility
 - Contractor responsibility

MATERIALS HANDLED:

Type (on basis of records reviewed)

- No Radioactive
- Natural Radioactive from Feed Materials Production
 - Ore
 - Refined Source Material
 - Residue
- Natural Radioactive Material from Non-Nuclear Activities
- Man-Made
- Other Beryllium

Comment Also indication of use of isotopes in separation of zirconium and hafnium.

Quantities (on the basis of records reviewed)

- None Production Quantities
- Small Amounts

Comment Unknown

OTHER PERTINENT FACTS:

- Facility was Licensed
 - During AEC/MED-Related Operations
 - For Similar Activities
 - For Other Activities

Comment _____

Commercial Production Involving Radioactive Material during AEC/MED Operations

Facility was Decontaminated and Released

Availability of Close Out Records

- None Some Sufficient

Radioactive Status:

	YES	MAYBE	PROBABLY NOT	NOT
Contaminated Potential for Exposure (accessible)	---	---	<u>X</u>	---
	---	---	<u>X</u>	---

QUANTITY OF RECORDS AVAILABLE:

- Very Little Some Sufficient

PROBABILITY OF FINDING ADDITIONAL RECORDS:

- Low Possible High

RECOMMENDATIONS:

- Eliminate
 Consider for Remedial Action
 Collect More Data

Comment: Recommendation based upon lack of information that would indicate involvement of metals other than Beryllium.

REFERENCES: Extracts attached.

SUMMARY

The plant in Lorain was one of three Beryl Beryllium Company plants in Ohio (2 in Cleveland). Very little information has been found on the operations at this plant, although it was apparently the largest of the three in terms of personnel. In addition to Beryllium, zirconium & hafnium operations were apparently carried out at the plant. Lack of information in hospital files assembled is considered an indication of limited involvement in MCO operations. No indication of involvement with radioactive materials (uranium, thorium, etc) would suggest that DOE would not have authority to pursue ^{further} investigations of operations at this plant. Therefore, absent justification for further investigation, it is recommended that this site be deleted from the FUSRAP.

9/12/57

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[REDACTED]

11. 46. 39

Extract pages 98-101
from this report

Medical & = 4

UNITED STATES ATOMIC ENERGY COMMISSION
NEW YORK OPERATIONS OFFICE

TID-4044 (Pl & Blr)
W. P. D. [unclear], Rpt to [unclear], 3/9/67

ANNUAL REPORT, FISCAL YEAR 1950
HEALTH AND SAFETY DIVISION

A REPORT SUBMITTED
TO THE MANAGER

November 13, 1950

[REDACTED]

[REDACTED]

and toxic hazards has been continued. Various non-occupationally related abnormalities were discovered during the course of these examinations and the individuals referred to their personal physicians. Arrangements are being made for examination of New Brunswick Laboratory employees.

Miscellaneous

In addition to the major contractors described in the body of this chapter, a considerable number of other plants and facilities has been visited. (These have included parts of the New York Operations Office such as New Brunswick Laboratory, the RHO Mineralogical Laboratory and the laboratory and shop facilities of the Health and Safety Division). This Division is occasionally called upon by contractors, subcontractors and other NYOC Divisions to visit plants where short term, experimental, laboratory, semi-pilot plant and pilot plant operations are carried out, involving materials of special interest to the Commission. Studies have included investigations of hazardous and nuisance fumes and gases, lighting conditions, general ventilation, among others. A partial list of visits to miscellaneous sites is given below, including, in some cases, the source of the request for our visit. (R-Radiation Branch, IH-Industrial Hygiene Branch, F & A-Fire and Accident Branch).

- A. D. Little Co., Boston, Mass.
Filter paper testing (IH)

- Air Reduction Corp., Murray Hill, N. J. (at request of Schenectady Operators)
Gas decontamination and radioisotopes (R)

- A. C. Smith, Milwaukee, Wis. (at request of NEPA)
Fabrication of beryllia parts (IH)

- Bendix Corp., Eclipse-Pioneer Div., Peterboro, N.J.
Production of classified units (F & A, R)

- Bendix Corp., Frieze Div., Baltimore, Md.
Production of classified units (F & A)

- Boyce Thompson Inst. for Plant Research, Yonkers, N. Y.
Isotopes handling (IH)
- Brush Beryllium Co., Lorain, Ohio
Use of isotopes in the separation of zirconium and hafnium (separate from beryllium work described in detail) (IH)
- Columbia University, N. Y.
Neutron measurements of cyclotron operations (R)
Mercury vapor hazards (IH)
Biophysics research (R, F & A)
- Conn. Agricultural Experiment Station, New Haven, Conn.
Use of isotopes (R)
- Enterprise Metal, Brooklyn, N. Y.
Machine magnesium (F & A)
- Fansteel Metallurgical Corp., North Chicago, Ill. (at request of NEPA)
Beryllium carbide machinery (IH)
- Fenn Machinery Co., Hartford, Conn.
Swaging of uranium rods (IH)
- Foote Mineral, Exton, Pa. and Phila., Pa.
Chlorine and oxychlorides attending zirconium separation processes. (IH, F & A)
- Gerity-Michigan Corp., Adrian, Mich.
Beryllium extrusion (IH)
- Harvard University, Cambridge, Mass.
Medical and biological research (R, F & A)
- Ionics Inc., Cambridge, Mass.
Ion exchange separation of zirconium (R)
- Johns Hopkins University, Baltimore, Md.
Sanitary engineering research with radioisotopes (R, F & A)
- Joslyn Manufacturing Co., Ft. Wayne, Ind.
Uranium rolling and machining (R)
- Lehigh R.R., Packerton Shops, Lehighton, Pa.
Inspection of railroad freight cars (IH)
- L. I. Biological Assoc., Cold Spring Harbor, N.Y.
Use of high intensity radiation source (R)
- Mass. General Hospital, Boston, Mass.
Medical research with radioisotopes (R)
- McDaniel Refractory Corp., Beaver Falls, Pa.
Preparation of beryllia refractories (IH)

Copy #6

W. I. M. C. P.

W. I. M. C. P.

Subject: Recommendations for Manhattan District Special Award.

EIDM O-247-a MS 2nd Memo Ind.

U.S. Engineer Office, Madison Square Area, New York, N. Y. 17 December 1945. To: Colonel E. H. Marsden, Manhattan District, Oak Ridge, Tennessee.

1. Reference is made to paragraphs 2 and 3 of the preceding indorsement. Listed below are nine unit price or lump sum contractors renominated for Manhattan District Special Awards together with information required by the preceding indorsement. Each contractor listed below is considered to be an exceptional case and highly deserving of the award because of the importance of the work performed to the timely success of the District.

✓a. Contract Number W-7407 eng-2 with Westinghouse Electric and Manufacturing Company.

- (1) Specific buildings or portions set aside exclusively for Manhattan District work were:
 - (a) Building 10, in which electrolysis was carried out in a separate room. There is no specific room number, but it can be identified as the room previously used for compressing hydrogen and filling cylinders with this material.
 - (b) The entire basement of Building 7 which was used for cleaning and briquetting the powdered metal.
 - (c) A room on the first floor of Building 3 (number not known) which was used for casting the briquettes into small ingots.
 - (d) Rooms 105, 106, 108 and 119 of Building 7, in which laboratory work was carried out.
- (2) It is estimated that approximately 75 persons still employed by Westinghouse worked on the project full time for six months or longer and that perhaps an additional 25 were likewise employed who are no longer connected with Westinghouse.
- (3) To insure that only employees who were actually employed on Manhattan District work be presented with the award, an officer of this area can proceed to Bloomfield, N. J. where a direct check of these persons can be made against the Westinghouse payroll. The specific duties of any employee in question can be accurately determined at this time to insure that only those actively engaged in project work are given the award.

EXTRACT

Special Rereview
Final Determination
Unclassified
By: 4-9-84
Date:
R. F. Brown

Subject: Recommendations for Manhattan District Special Award. 17 Dec. 1945

EIDM O-247-a MS

2nd Memo Ind. (cont'd.)

- (3) To insure that only employees who were actually employed on Manhattan District work be presented with the award, an officer of this area can proceed to North Chicago, Illinois, where a direct check of these persons can be made against the Fansteel Metallurgical Corporation payroll. The specific duties of any employee in question can be accurately determined at this time to insure that only those actively engaged in project work are given the award.

e. Contract Number W-14-108 eng-9 and W-14-108 eng-12 with Raytheon Manufacturing Company.

- (1) Work was performed at Boston, Massachusetts. [Due to the nature of the work, established buildings were used with no location set aside especially for work being performed under this contract.]
- (2) Approximately 100 employees were involved.
- (3) To insure that only employees who were actually employed on Manhattan District work be presented with the award, an officer of this area can proceed to Boston, Massachusetts, where a direct check of these persons can be made against the Raytheon payroll. The specific duties of any employee in question can be accurately determined at this time to insure that only those actively engaged in project work are given the award.

Per discussion with Lt. Col. Kelley, this is not correct. There were separate buildings. See basis letter under Raytheon Mfg. Co. 12, 28, 45 S

f. Contracts Numbers W-7401 eng-60, W-7401 eng-78, and W-22-075 eng-10 with Brush Beryllium Company.

- (1) The work was performed in one plant at First Street and Hamilton Avenue, Lorain, Ohio and in two plants located at 3714 Chester Avenue and 3771 Chester Avenue, Cleveland, Ohio. It would have been extremely impractical for these buildings or any portion thereof to be set aside exclusively for Manhattan District work since the products of this company were not completely limited to District use but were also supplied to certain commercial firms. This company has always rendered exceptional cooperation and in order to speed deliveries to the Manhattan District has pushed its production one-third beyond the rated capacity of the plant.

Special Rereview
Final Determination
Unclassified

By: *4-9-84*
Date: P. F. Brown

Subject: Recommendations for Manhattan District Special Award. 17 Dec. 1945

EIDM O-247-a MS

2nd Memo Ind. (cont'd.)

- (2) At the Lorain plant there were 204 people employed on Manhattan District work for a period of 6 months or longer. At the Cleveland plants there were 69 people employed on Manhattan District work for a period of 6 months or longer.
- (3) To insure that only employees who were actually employed on Manhattan District work be presented with the award, an officer of this area can proceed to Cleveland and Lorain, Ohio where a direct check of these persons can be made against the Brush payroll. The specific duties of any employee in question can be accurately determined at this time to insure that only those actively engaged in project work are given the award.

g. Contracts Numbers W-7405 eng-6, W-7405 eng-17, W-7405 eng-20, W-7405 eng-264, W-7405 eng-318, W-7405 eng-252, W-26-021 eng-14, and W-26-021 eng-21 with Eldorado Mining and Refining, Ltd.

- (1) Work was performed at Port Hope, Ontario, Canada, where the entire facilities of the mine and plant with the exception of the radium plant were used for Manhattan District work.
- (2) Approximately 440 employees were involved in Manhattan District work.
- (3) To insure that only employees who were actually employed on Manhattan District work be presented with the award, an officer of this area can proceed to Port Hope, where a direct check of these persons can be made against the Eldorado payroll. The specific duties of any employee in question can be accurately determined at this time to insure that only those actively engaged in project work are given the award.

h. Contracts Numbers W-7405 eng-9, W-7405 eng-21, W-7405 eng-54, W-7405 eng-251, W-26-021 eng-7, and W-26-021 eng-16 with the Vitro Manufacturing Company.

- (1) Work was performed at Plant No. 1, Laboratory Building, Storage Building, and Drying House located at Cannesburg, Penna. and also in the Zircon Building located in

Special Review
Final Determination
Unclassified

By: 4-9-84
Date: P. F. Brown